Data Analysis with Python

Cheat Sheet: Model Evaluation and Refinement

Process	Description	Code Example
Splitting data for training and testing	The process involves first separating the target attribute from the rest of the data. Treat the target attribute as the comput and the rest of the data as input. Now split the input and output datasets into varioning and seeing subsets.	from taken-medi, minetim import train, text, quist
Cross validation score	Without sufficient data, you go for cross validation, which involves creating different subsets of training and testing data multiple times and evaluating performance across all of them using the R ² value.	from allows-model, whether import creat, wal, store leveline-frequencies() Frequency (and the store of the s
Cross validation prediction	Use a cross validated model to create prediction of the output.	for attack, and, placing ingers (erg. a) pend of from their lines and ingers (erg. a) pend of from their lines and ingers timentage ratios [1] per commandation (lines and lines (lines and lines an
Ridge Regression and Prediction	To create a better fitting polynomial regression model, like, one that avoids overfitting to the training data, we use the Ridge regression model with a parameter alpha that is used to modify the effect of higher-order parameters on the model prediction.	from takers.linear_model import Ridge problepsmidistratere(logramoral_trials_row_fin_transferm(c_trials[['attribute_i'', 'attribute_i'', 'attribute_i'',]]) tignochi-tign(planear) tignochi-tign
Grid Search	Use Grid Search to find the correct alpha value for which the Ridge regression model gives the best performance. It further uses cross-validation to create a more refined model.	from allows.modil_ablation import dridservicy secondary [(1000 to 1000 to 100



